

## COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

ATTORNEY DOCKET NO.: SOEI-5001

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

## CELL CALCIFICATION SUPPRESSING PROTEINS, AND GENES OF THE PROTEINS

is attached hereto; or

was filed as United States application Serial No. \_\_\_\_\_ on JUNE 18, 1997 and was amended on \_\_\_\_\_ (if applicable); or

was filed as PCT international application Number \_\_\_\_\_ on \_\_\_\_\_ and was amended under PCT Article 19 on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office information which is material to the patentability of claims presented in this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

## PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. §119:

COUNTRY (if PCT, indicate PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 U.S.C. §119
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to the patentability of claims presented in this application in accordance with Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

**PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. §120:**

U.S. APPLICATIONS		STATUS (Check One)		
U.S. APPLICATION NO.	U.S. FILING DATE	PATENTED	PENDING	ABANDONED

PCT APPLICATIONS DESIGNATING THE U.S.			STATUS (Check One)		
PCT APPLN. NO.	PCT FILING DATE	U.S. SERIAL NO.	PATENTED	PENDING	ABANDONED

**POWER OF ATTORNEY:** as a named inventor, I hereby appoint the following attorneys to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

**Morgan, Lewis & Bockius LLP**

Robert J. Gaybrick, Reg. No. 27,890; Richard S. Meyer, Reg. No. 32,541; C. Scott Talbot, Reg. No. 34,262; Reid G. Adler, Reg. No. 30,988; J. Michael Thesz, Reg. No. 40,354; John G. Smith, Reg. No. 33,818; Song K. Jung, Reg. No. 35,210; Michele M. Schafer, Reg. No. 34,717; Matthew T. Bailey, Reg. No. 33,829; Jeffrey A. Lindeman, Reg. No. 34,658; John D. Zele, Reg. No. 39,887; Mary Jane Boswell, Reg. No. 33,652; Michele V. Frank, Reg. No. 37,028, Michael P. Tierney, Reg. No. 35,388.

Send Correspondence To:

Morgan, Lewis & Bockius LLP  
1800 M Street, N.W.  
Washington, D.C. 20036-5869

Direct Telephone Calls To:  
(name and telephone number)

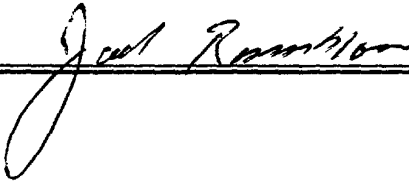
Robert J. Gaybrick  
(202) 467-7501

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF SOLE OR FIRST INVENTOR	Masahiro IWAMOTO	
RESIDENCE & CITIZENSHIP	Osaka, Japan	COUNTRY OF CITIZENSHIP JAPAN
POST OFFICE ADDRESS	4-6-10-606, Aoshinke, Minoo-shi, Osaka 562 Japan	
FIRST OR SOLE INVENTOR'S SIGNATURE	<i>Masahiro Iwamoto</i>	DATE August 27, 1997
FULL NAME OF SECOND INVENTOR	Yoshinobu HIGUCHI	
RESIDENCE & CITIZENSHIP	Shizuoka, Japan	COUNTRY OF CITIZENSHIP JAPAN
POST OFFICE ADDRESS	c/o CHUGAI SEIYAKU KABUSHIKI KAISHA 135, Komakado 1-chome, Gotemba-shi, Shizuoka 412 Japan	
SECOND INVENTOR'S SIGNATURE	<i>Yoshinobu Higuchi</i>	DATE August 27, 1997
FULL NAME OF THIRD INVENTOR	Maurizio PACIFICI	
RESIDENCE & CITIZENSHIP	Philadelphia, PA U.S.A.	COUNTRY OF CITIZENSHIP US
POST OFFICE ADDRESS	c/o University of Pennsylvania, School of Dental Medicine, 4010 Locust Street, Levy Building, Philadelphia, PA 19104 USA	
THIRD INVENTOR'S SIGNATURE	<i>Maurizio Pacifici</i>	DATE September 4, 1997

Listing of Inventors Continued on attached page(s)    ☒ Yes    ☐ No

ATT KEY DOCKET NO.: SOEI-5001

FULL NAME OF FOURTH INVENTOR	Joel Rosenbloom	
RESIDENCE & CITIZENSHIP	Philadelphia, PA USA	COUNTRY OF CITIZENSHIP US
POST OFFICE ADDRESS	c/o University of Pennsylvania, School of Dental Medicine, 4010 Locust Street, Levy Building, Philadelphia, PA 19104 USA	
FOURTH INVENTOR'S SIGNATURE 		DATE September 9, 1997
FULL NAME OF FIFTH INVENTOR		
RESIDENCE & CITIZENSHIP		COUNTRY OF CITIZENSHIP
POST OFFICE ADDRESS		
FIFTH INVENTOR'S SIGNATURE		DATE
FULL NAME OF SIXTH INVENTOR		
RESIDENCE & CITIZENSHIP		COUNTRY OF CITIZENSHIP
POST OFFICE ADDRESS		
SIXTH INVENTOR'S SIGNATURE		DATE
		DATE

Listing of Inventors Continued on attached page(s)    ☐ Yes    ☒ No

RECORDATION FORM COVER SHEET  
PATENTS ONLY

Attorney Docket No.: 046124-5001-US

To the Assistant Commissioner for Patents:  
Please record the attached original documents or copy thereof.

ATTN: BOX ASSIGNMENT

1. Name of conveying party(ies):  
1. Masahiro IWAMOTO  
2. Yoshinobu HIGUCHI

Additional name(s) of conveying party(ies) attached?  
\_\_ Yes X No

2. Name and address of receiving party(ies):

Name: Chugai Seiyaku Kabushiki Kaisha  
5-1, Ukima 5-chome,  
Kita-Ku, Tokyo, 115-8543 Japan

Internal Address:

Street Address:

City:

State:

Zip:

Additional name(s) & address(es) attached?  
\_\_ Yes X No

3. Nature of conveyance:

X Assignment      Merger  
     Security Agreement      Change of Name  
     Other                     

Execution Date: 1. June 2, 2001, 2. May 28, 2001

4. Application number(s) or patent number(s):

If this document is being filed together with a new application the execution date of the application is:

A. Patent Application No.(s) 08/878,177

B. Patent No.(s)

Additional numbers attached: \_\_ Yes X No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Mr. John G. Smith  
Internal Address: Customer No. 09629  
Morgan, Lewis & Bockius LLP

Street Address: 1800 M Street, N.W.  
City: Washington State: D.C. Zip: 20036

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R §3.41): \$40.00  
X Enclosed  
     Authorized to be charged to deposit account 50-0310

8. Deposit account number: 50-0310  
Attach duplicate of page if paying by deposit account

9. Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

John G. Smith  
Name of Person Signing

  
Signature

July 12, 2001  
Date

Total number of pages including cover sheet, attachments and documents: 2

**ASSIGNMENT**

Whereas, I/we,

NameAddress1) **Masahiro IWAMOTO**4-6-10-606, Aoshinke,  
Minoo-shi, Osaka 562 Japan  
c/o CHUGAI SEIYAKU KABUSHIKI KAISHA,2) **Yoshinobu HIGUCHI**135, Komakado 1-chome,  
Gotemba-shi, Shizuoka 412-8513 Japan

hereinafter called assignor(s), have invented certain improvements in  
**CELL CALCIFICATION SUPPRESSING PROTEINS, AND GENES OF THE PROTEINS**

and executed an application for Letters Patent of the United States of America therefor on even date herewith unless  
 otherwise indicated below:

Whereas filed on **June 18, 1997**, Serial No. **08/878177**; and

**CHUGAI SEIYAKU KABUSHIKI KAISHA**5-1, Ukima 5-chome,  
Kita-ku, Tokyo 115-8543 Japan

(assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United States  
 patents to be obtained therefor;

NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of which is  
 hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign,  
 transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to  
 this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States  
 which may be granted thereon, and all reissues thereof, and I/WE hereby authorize and request the Commissioner of  
 Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and  
 assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with  
 assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal  
 proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or  
 desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional,  
 continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its  
 successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being  
 understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and  
 assigns.

INVENTORSDATE SIGNED

1):

Name:

*Masahiro Iwamoto*  
**Masahiro IWAMOTO**

*06/02/2001*

2):

Name:

*Yoshinobu Higuchi*  
**Yoshinobu HIGUCHI**

*05/28/2001*